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| 1 | 1. (116)   | Tousty Freschic  | A memod of generating contour times from                   |  |
|---|--|--|--|--|
| 2 | elevation data, the method comprising the steps of:  |  |  |  |
| 3 | a)   | selecting a fi   | rst data point from the elevation data;                    |  |
| 4 | b)   | setting row a  | and column data to an initial contour value, the row and   |  |
| 5 | column data comprising a first state;  |  |  |  |
| 6 | c)   | comparing a second data point with the first state for determining an        |  |  |
| 7 | existence of a conto   | tour line depending on a result from the step of comparing;                  |  |  |
| 8 | d)   | updating the first state to a next state, wherein the next state comprises a |  |  |
| 9 | next row and column data, if the contour line exists;                                      |  |  |  |
| 0 | e)   | creating a portion of a contour line image, if the contour                   |  |  |
| 1 | line exists;   |  |  |  |
| 2 | f)   | proceeding to  | o a next data point; and                                   |  |
| 3 | g)   | repeating steps b) through f) for a next column or row.                      |  |  |
|   |  |  |  |  |
| 1 | 2.   | (Original)   | The method of claim 1 wherein the step of proceeding       |  |
| 2 | comprises proceeding in a predetermined direction.   |  |  |  |
|   |  | •  |  |  |
| 1 | 3.   | (Original)   | The invention of claim 2 wherein the step of proceeding in |  |
| 2 | a predetermined direction comprises proceeding in predetermined row and column directions. |  |  |  |
|   |  |  |  |  |
| 1 | 4.   | (Original)   | The method of claim 1 further comprising the step of       |  |
| 2 | selecting a contour line interval.   |  |  |  |
| _ | _  |  |  |  |
| 1 | 5.   | (Original)   | The method of claim 1 further comprising anti-aliasing the |  |
| 2 | contour line image.  |  |  |  |

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- 1 6. (Original) The method of claim 1 wherein the step of updating 2 comprises determining if an elevation point row and column data exceeds a current row or 3 column base elevation by a value greater than a contour interval.
- 7. (Previously Presented) The method of claim 1 wherein the step of updating comprises storing the next state in a memory.
- 1 8. (Original) The method of claim 7 wherein the step of storing comprises storing the row and column base elevation.
- 9. (Original) The method of claim 1 wherein the step of creating comprises drawing the portion of the contour line image.
- 1 10. (Original) The method of claim 9 wherein the step of drawing comprises displaying the portion of the contour line image.
- 1 11. (Original) The method of claim 1 wherein the state of creating and the 2 step of repeating comprises creating an entire contour line image.

Serial No.: 10/797,369 Attorney's Docket No.: H0006457-5722 Art Unit: 2676 Page 4 1 12. (Original) A method of transforming input elevation data into a real-2 time contour plot image, the method comprising the steps of: 3 a) selecting an ordering sequence; 4 b) selecting a contour line interval; 5 c) determining initial row and column base elevation values; 6 d) selecting a first data point; 7 determining whether a contour line point has been detected by comparing e) 8 the row base elevation value or column base elevation value plus the contour interval to the 9 elevation data: drawing a portion of a contour plot image; 10 f) updating the row and column elevation values to a highest contour interval 11 g) 12 multiple less than a elevation data point; 13 moving to a next data point; and h) 14 i) repeating steps e) through h). 1 13. (Original) The method of claim 12 wherein the step of determining 2 initial row and column base elevation values comprises selecting a contour elevation closest to 3 but not exceeding the first elevation value in the row. 1 14. (Original) The method of claim 12 wherein the step of drawing and 2 the step of repeating comprises drawing an entire contour line image.

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Art Unit: 2676 Page 5 1 2 15. (Previously Presented) An apparatus for generating contour lines 3 from row and column data, the apparatus comprising: 4 a first data point from the row and column data 5 comprising a first state; 6 a means for comparing a second data point with the first 7 state for determining an existence of a contour line depending on a result from the means for 8 comparing; 9 a means for updating the first state to a next state, if the 10 contour line exists; 11 a means for creating a portion of a contour line image, if the contour line 12 exists; 13 a next data point for comparing with the next state by the means for 14 comparing, the next state comprising a next row and column data; and 15 a means for drawing an entire contour line image from a plurality of 16 portions of contour line images created by the means for creating. 1 16. (Original) The apparatus of claim 15 wherein said means for creating 2 comprises a display. 1 17. (Original) The apparatus of claim 15 further comprising memory for 2 storing the next state. 1 18. (Original) The apparatus of claim 15 further comprising a means for

anti-aliasing the entire contour line image.